

## CONTAINS NO CBI

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90-890000341

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Comprehensive Assessment Information Rule

REPORTING FORM

When completed, send this form to:

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office For Agency Use Only:

Date of Receipt: \_\_\_\_

Document

Control Number:

Docket Number:

EPA Form 7710-52

PART	Α (	GENERAL REPORTING INFORMATION
1.01	Th	is Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
CBI	COL	repleted in response to the <u>Federal Register Notice of <math>[1]2[2]2[8]9</math></u> mo. day year
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No $[0]2]6]4]7]1]-[6]2]-[5]$
	b.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule (NA)
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule
		CAS No. of chemical substance [_]_]_]_]_]_]_]_[]_]-[_]
		Name of chemical substance
1.02	Ide	ntify your reporting status under CAIR by circling the appropriate response(s).
<u>CBI</u>		ufacturer
[_]		orter 2
		cessor(3
		manufacturer reporting for customer who is a processor
		processor reporting for customer who is a processor

				-						
1.63 CBI	in the above-listed Federal Register Notice?									
[_]	Yes	• • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	[ <u>X</u> ] Go	to quest	ion 1.04
	No	• • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •	•••••	•••••	[ <u> </u> ]      Go	to quest	ion 1.05
1.04 CBI	а.	Circl	ou manufacture r a trade name le the approp	riate respon	nse.	nat liste	ed in the	Federal	Register	Notice?
[_]			• • • • • • • • • • • • • • • •							
	ь.		c the appropri				••••••	••••••		(2
	-	[_]	You have cho			ustomers	of their	reportir	ng obligat	ions
		[_]	You have cho You have sub date of the reporting.	omitted the	trade nam	e(s) to F	'PA ono da	y after der vhic	the effec h you are	tive
1.05 CBI	•	O	y a trade nam requirements	o of your cr	.aue name	supplier,	ecause yo provide	u vere n that tra	otified o	f your
[_]			ie							
	Is	the tra	ade name prod	luct a mixtu	re? Circ	le the ap	propriate	respons	e.	
	Yes	••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •				(i
	No				••••••				• • • • • • • • •	2
1.06 CBI	Cer sign	ifica the o	tion The p certification	erson who i statement	s respons belov:	ible for	the compl	etion of	this for	m must
			certify that n this form i	, to the be s complete	est of my and accur	knowledge ate."	and beli	ef, all	informati	on
	Ar	t J.	Carnes NAME		- Gr	SIGN	ATURE	The state of the s	6-12- DATE S	
	Ma	nager	TITLE		(_904_)	781-130 TELEPHO			22 3	201100
<u>_</u>	ark	(X) th	his box if yo	ù attach a	continuat	ion sheet				

7 4	3	The second secon				
1.07	Exemptions From Reporting -	- If you have provided EPA or anothe	er Federal agency			
<i>'</i>	with the required information on a CAIR Reporting Form for the listed substance					
CBI	within the past 3 years, and this information is current, accurate, and complete					
	for the time period specific	ed in the rule, then sign the certif	fication below. You			
[_]	are required to complete see	ction 1 of this CAIR form and provid	de any information			
		usly submitted. Provide a copy of a	any previous			
	submissions along with your	Section 1 submission.				
	"I hereby cortify that to	the best of my knowledge and belief,	-11			
	information which I have no	t included in this CAIR Reporting Fo	, all required			
	to EPA within the past 3 ver	ars and is current, accurate, and co	omplete for the time			
	period specified in the rule	e."	simplete for the time			
	(AM)					
	NAME	SIGNATURE	DATE SIGNED			
		()				
	TITLE	TELEPHONE NO.	DATE OF PREVIOUS			
			SUBMISSION			
1.08	CBT Certification If you	have eccented any CRT electric to all				
1.00	certify that the following	have asserted any CBI claims in the statements truthfully and accurately	is report you must			
	those confidentiality claims	statements truthrully and accurately	y apply to all or			
CBI	choose confidentiality claim.	s which you have asserted.				
	"My company has taken measu	res to protect the confidentiality o	of the information			
[]	and it will continue to take	e these measures; the information is	s not and has not			
	been, reasonably ascertainal	ble by other persons (other than go	vernment bodies) by			
	using legitimate means (other	er than discovery based on a showing	of special need in			
	a judicial or quasi-judicia	l proceeding) without my company's o	consent: the			
	information is not publicly	available elsewhere; and disclosure	e of the information			
	would cause substantial harm	m to my company's competitive posit:	ion."			
	(NA)					
	NAME					
	NAME	SIGNATURE	DATE SIGNED			
	TITLE	TELEPHONE NO.	<del></del>			
	IIILE	TELEPHONE NO.				
	*					
	•					
$_{1}$	Mark (X) this box if you att	ach a continuation choos				
, — ı	mark (h) this box it you att	ach a Continuation Sheet.				

PART	B CORPORATE DATA
1.09	Facility Identification
<u>CBI</u>	Name [G]O]O]D]Y]E]A]R]  C]O]M]M]  T]I]R]E & S  V]C]  C]T]R Address [1]4 7 5]  P]I]C]K]E]T]T]V]I]L L]E]  R]O]A]D]
	[J]AC K S O N V I L E - - - - - - - - - - - - - - - - - -
	Dun & Bradstreet Number       [0]1]-[2]0]3]-[0]6]2]6]         EPA ID Number       []3]4]0]2]5]3]2]4]         Employer ID Number       []3]4]0]2]5]3]2]4]
	Primary Standard Industrial Classification (SIC) Code
	Other SIC Code
1.10	Company Headquarters Identification
<u>CBI</u>	Name $[T]h]e][G]o]o]o]d]y]e]a]r][T]i]r]e]&[R]u]b]b]e]r][C$ Address $[1]1]4]4][E]a]s]t][M]a]r]k]e]t][Street]$
	(A k r o n
	$ \begin{array}{c c}                                    $
	Dun & Bradstreet Number
	,
{	Mark (X) this box if you attach a continuation sheet.

1.11	Parent Company Identification
6/	, rately company ruencerication
CBI	Name [T]hlellGlololdlylelalrllTlilrlel&lRlulblblelrllCl
[_]	Address $[1]14]4]4]E[a]s]t]]M[a]r]k]e]t][Street]$
	(A]k r a n - - - - - - - - - - - - - - - - - -
	Dun & Bradstreet Number
1.12	Technical Contact
CBI	Name [M]]W]]SMITH]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
[_]	Title [GODDYEAR TIRE & RUBBER] COMPANY] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
	Address [1]44]East]Market Street] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
	[A  K  R  O N
	$ \begin{bmatrix} \boxed{0} \\ \boxed{0} \end{bmatrix} \qquad \begin{bmatrix} \boxed{4} \\ \boxed{4} \end{bmatrix} \boxed{3} \boxed{1} \boxed{0} \boxed{2} \boxed{1} \boxed{0} \boxed{0} \boxed{0} \boxed{0} \boxed{1} \boxed{0} $
	Telephone Number
1.13	This reporting year is from

/	•
1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
	(NA)
CBI	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_] [_] [_] [_] [_] [_] [_] [_] [_
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
CBI	Name of Buyer [ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_]_][_]]_]_]_] State
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
[_]	Mark (X) this box if you attach a continuation sheet.

\_					
1.16)  CBI	For each classification listed below, state the quantity of the listed sub was manufactured, imported, or processed at your facility during the repor				
	Classification	uantity (kg/yr)			
	Manufactured	0.0			
	Imported	0.0			
	Processed (include quantity repackaged)	618.2			
	Of that quantity manufactured or imported, report that quantity:				
	In storage at the beginning of the reporting year	ΝΑ			
	For on-site use or processing	NA			
	For direct commercial distribution (including export)	NA ·			
	In storage at the end of the reporting year	NA .			
	Of that quantity processed, report that quantity:				
	In storage at the beginning of the reporting year	7.36 (1 dru			
	Processed as a reactant (chemical producer)				
	Processed as a formulation component (mixture producer)	0.0			
	Processed as an article component (article producer)	618.2(84dru			
	Repackaged (including export)	0.0			
	In storage at the end of the reporting year	7.36 (1 dru			

C¹	IDENTIFICATION	OF	MTYTIDEC
•	TOWNITH TOWNTON	UĽ	DILATURES

Mixture If the listed substance on which you are required to report is a mixtur or a component of a mixture, provide the following information for each component chemical. (If the mixture composition is variable, report an average percentage o each component chemical for all formulations.)					
Component Name	Supplier Name	Average Composition b (specify pre e.g., 45%	y Weight ecision,		
TDI Prepolymer	ARNCO	40 ± 5.0			
Petroleum Hydrocarbon	ARNCO	55 ± 5.0			
Toluene Diisocyanate	ARNCO	4.0 ± 0.5			
		Total	100%		
		<del></del>			

. 6	State the quantity of the listed substance that your facility man or processed during the 3 corporate fiscal years preceding the redescending order.	ufactured, imported porting year in
<u>CBI</u>		
	Year ending	$\dots \left[ \frac{1}{1} \right] \frac{2}{\text{Mo.}} \left[ \frac{8}{\text{Year}} \right]$
	Quantity manufactured	
	Quantity imported	
	Quantity processed	
	Year ending	$\cdots \begin{bmatrix} 1 \\ 1 \end{bmatrix} 2 \begin{bmatrix} \boxed{8} \end{bmatrix} 6$ -Mo. Year
	Quantity manufactured	
	Quantity imported	0 0
	Quantity processed	
	Year ending	$\cdots \begin{bmatrix} \boxed{1} \boxed{2} \end{bmatrix} \begin{bmatrix} \boxed{8} \boxed{5} \\ \text{Mo.} \qquad \text{Year}$
	Quantity manufactured	
	Quantity imported	0.0
	Quantity processed	
2.05 CBI	Specify the manner in which you manufactured the listed substance appropriate process types.	. Circle all
	NA	
·1	Continuous process	
	Semicontinuous process	
	Batch process	
		••••••

CBI	Specify the manner in which you processed the listed substance. Circle all appropriate process types.						
[_]	Continuous process 1						
	Semicontinuous process						
	Batch process						
2.07 CBI							
[_]		NA					
-	Manufacturing capacity		• • • • • • • • • • • • • • • • • • • •	kg/yr			
	Processing capacity			kg/yr			
2.08 CBI	If you intend to increamanufactured, imported, year, estimate the increase volume.	OL DEOCESSED at any	time after many and				
[_]		Manufacturing Quantity (kg)	Importing Quantity (kg)	ProcessingQuantity (kg)			
	Amount of increase			618.2			
	Amount of decrease			U10.2			
	•						
	Mark (X) this box if yo						

2.,09	substance durin	argest volume manufacturing or processing proces e, specify the number of days you manufactured of g the reporting year. Also specify the average s type was operated. (If only one or two opera	or processed	the listed
CBI				
[_]			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured		
		Processed	250	4
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		•
	•	Manufactured		
		Processed		
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured		
		Processed		
2.10 CBI [_]	chemical.  Maximum daily in Average monthly	inventory	of the is	ted a bulk kg
	Mark (X) this bo	ox if you attach a continuation sheet.		

etc.).		Byproduct, Coproduct	Concentration (%) (specify ±	Source o products products
CAS No.	Chemical Name	or Impurity <sup>1</sup>	% precision)	Impurit
	·		-	
<sup>1</sup> Use the follow	oving codes to design	eate byproduct copr	oduct or impurit	· · ·
B = Byproduc C = Coproduc	t	aate byproduct, copr	oduct, or impurit	y:
B = Byproduc	t t	aate byproduct, copr	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	aate byproduct, copr	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	aate byproduct, copr	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	aate byproduct, copr	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	ate byproduct, copr	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	ate byproduct, copr	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	nate byproduct, copr	oduct, or impurit	y:

Manu Impe	b. Quantity factured, orted, or ocessed		c. % of Quantity Used Captively On-Site	d.
X 100	ocesseu		100	Type of End-Users'  I, CM
				•
<pre>1 Use the following codes to des A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Acceler:     Sensitizer D = Inhibitor/Stabilizer/Scaves     Antioxidant E = Analytical reagent F = Chelator/Coagulant/Sequest: G = Cleanser/Detergent/Degrease H = Lubricant/Friction modified agent I = Surfactant/Emulsifier J = Flame retardant K = Coating/Binder/Adhesive and</pre>	ator/ nger/ rant er r/Antivear	L = M = N = O = P = Q = R = T = U = V = V = V = V = V = V = V = V = V	Moldable/Castable Plasticizer Dye/Pigment/Color Photographic/Repland additives Electrodeposition Fuel and fuel add Explosive chemical Fragrance/Flavor Pollution control Functional fluid Metal alloy and Ebeological modified.	als and additives chemicals chemicals s and additives additives
<sup>2</sup> Use the following codes to des				
<pre>I = Industrial CM = Commercial</pre>	CS = Consu H = Other			

a.	b.		С.	d.
Product Types <sup>1</sup>	% of Quantity Manufactured, Imported, or Processed	_	% of Quantity Used Captively On-Site	Type of End-Users <sup>2</sup>
x	100	_	100	I, CM
		<b></b>		•
		<del>-</del>		
		_		
<sup>1</sup> Use the following cod	es to designate prod	uct	types:	
A = Solvent				e/Rubber and additive:
B = Synthetic reactan			Plasticizer	rant/Ink and additives
L = Laraivsr/iniriaro			by craigment coac	
<pre>C = Catalyst/Initiato     Sensitizer</pre>	27.1100020202017		Photographic/Rep	
Sensitizer D = Inhibitor/Stabili		0 =	and additives	rographic chemical
Sensitizer D = Inhibitor/Stabili Antioxidant	zer/Scavenger/	0 = P =	and additives Electrodeposition	rographic chemical n/Plating chemicals
Sensitizer D = Inhibitor/Stabili Antioxidant E = Analytical reagen	zer/Scavenger/	O = P = Q =	and additives Electrodeposition Fuel and fuel additional	rographic chemical n/Plating chemicals ditives
Sensitizer D = Inhibitor/Stabili Antioxidant E = Analytical reagen F = Chelator/Coagulan	zer/Scavenger/ it it/Sequestrant	O = P = Q = R =	and additives Electrodeposition Fuel and fuel add Explosive chemic	rographic chemical n/Plating chemicals ditives als and additives
Sensitizer D = Inhibitor/Stabili Antioxidant E = Analytical reagen F = Chelator/Coagulan G = Cleanser/Detergen	zer/Scavenger/ it it/Sequestrant it/Degreaser	O = P = Q = R = S = S	and additives Electrodeposition Fuel and fuel add Explosive chemical Fragrance/Flavor	rographic chemical n/Plating chemicals ditives als and additives chemicals
Sensitizer D = Inhibitor/Stabili Antioxidant E = Analytical reagen F = Chelator/Coagulan	zer/Scavenger/ it it/Sequestrant it/Degreaser	O = P = Q = R = S = T =	and additives Electrodepositic Fuel and fuel ad Explosive chemic Fragrance/Flavor Pollution contro	rographic chemical n/Plating chemicals ditives als and additives chemicals
Sensitizer  D = Inhibitor/Stabili Antioxidant  E = Analytical reagen  F = Chelator/Coagulan  G = Cleanser/Detergen  H = Lubricant/Frictio	zer/Scavenger/ it it/Sequestrant it/Degreaser on modifier/Antiwear	O = P = Q = R = S = T = U = V	and additives Electrodeposition Fuel and fuel add Explosive chemical Fragrance/Flavor	rographic chemical n/Plating chemicals ditives als and additives chemicals l chemicals s and additives
Sensitizer  D = Inhibitor/Stabili Antioxidant  E = Analytical reagen  F = Chelator/Coagulan  G = Cleanser/Detergen  H = Lubricant/Frictio agent  I = Surfactant/Emulsi  J = Flame retardant	zer/Scavenger/  it it/Sequestrant it/Degreaser on modifier/Antiwear	O = P = Q = R = S = T = U = V = W =	and additives Electrodeposition Fuel and fuel add Explosive chemical Fragrance/Flavor Pollution control Functional fluid Metal alloy and Rheological modi	rographic chemical n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives fier
Sensitizer  D = Inhibitor/Stabili Antioxidant  E = Analytical reagen  F = Chelator/Coagulan  G = Cleanser/Detergen  H = Lubricant/Frictio agent  I = Surfactant/Emulsi  J = Flame retardant	zer/Scavenger/  it it/Sequestrant it/Degreaser on modifier/Antiwear	O = P = Q = R = S = T = U = V = W =	and additives Electrodeposition Fuel and fuel add Explosive chemical Fragrance/Flavor Pollution control Functional fluid Metal alloy and Rheological modi	rographic chemical n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives
Sensitizer  D = Inhibitor/Stabili Antioxidant  E = Analytical reagen  F = Chelator/Coagulan  G = Cleanser/Detergen  H = Lubricant/Frictio agent  I = Surfactant/Emulsi  J = Flame retardant	zer/Scavenger/  it it/Sequestrant it/Degreaser on modifier/Antiwear fier  Thesive and additives	O = P = Q = R = S = U = V = X = X	and additives Electrodeposition Fuel and fuel additives Explosive chemical Fragrance/Flavor Pollution control Functional fluid Metal alloy and Rheological modition Other (specify)	rographic chemical n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives fier
Sensitizer  D = Inhibitor/Stabili Antioxidant  E = Analytical reagen  F = Chelator/Coagulan  G = Cleanser/Detergen  H = Lubricant/Frictio agent  I = Surfactant/Emulsi  J = Flame retardant  K = Coating/Binder/Ad	zer/Scavenger/  it it/Sequestrant it/Degreaser on modifier/Antiwear fier  Thesive and additives	O = P = Q = R = S = U = V = X = type	and additives Electrodeposition Fuel and fuel add Explosive chemical Fragrance/Flavor Pollution control Functional fluid Metal alloy and Rheological modif Other (specify) of end-users:	rographic chemical n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives fier

Final Product's Listed Substance Type of	a.	b.	c. Average % Composition of	d.
**Juse the following codes to designate product types:  A = Solvent	Product Type <sup>1</sup> Fin		Listed Substance	Type of End-Users <sup>3</sup>
A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/     Sensitizer D = Inhibitor/Stabilizer/Scavenger/     Antioxidant E = Analytical reagent G = Cleanser/Detergent/Degreaser H = Lubricant/Friction modifier/Antiwear agent J = Flame retardant K = Coating/Binder/Adhesive and additives X = Gas B = Liquid B = Synthetic reactant M = Plasticizer N = Dye/Pigment/Colorant/Ink and additives O = Photographic/Reprographic chem and additives A = Gas B = Liquid C = Cleanser/Detergent/Degreaser B = Liquid C = Cleanser/Detergent/Degreaser C = Aqueous solution D = Paste C = Slurry H = Other (specify) Article  L = Moldable/Castable/Rubber and add M = Plasticizer N = Plasticizer N = Plasticizer O = Photographic/Reprographic chem and additives E = Explosive chemicals and additives C = Fragrance/Flavor chemicals T = Pollution control chemicals U = Functional fluids and additives U = Rheological modifier V = Metal alloy and additives V = Rheological modifier V = Rheological modifier S = Other (specify) Article-Flat product's physical form: A = Gas B = Liquid C = Aqueous solution F 4 = Other solid D = Paste G = Gel E = Slurry H = Other (specify) Article	<u>x</u>	Н	< 0.01	I, CM
A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/     Sensitizer D = Inhibitor/Stabilizer/Scavenger/     Antioxidant E = Analytical reagent G = Cleanser/Detergent/Degreaser H = Lubricant/Friction modifier/Antiwear agent J = Flame retardant K = Coating/Binder/Adhesive and additives X = Gas B = Liquid B = Synthetic reactant M = Plasticizer N = Dye/Pigment/Colorant/Ink and additives O = Photographic/Reprographic chem and additives A = Gas B = Liquid C = Cleanser/Detergent/Degreaser B = Liquid C = Cleanser/Detergent/Degreaser C = Aqueous solution D = Paste C = Slurry H = Other (specify) Article  L = Moldable/Castable/Rubber and add M = Plasticizer N = Plasticizer N = Plasticizer O = Photographic/Reprographic chem and additives E = Explosive chemicals and additives C = Fragrance/Flavor chemicals T = Pollution control chemicals U = Functional fluids and additives U = Rheological modifier V = Metal alloy and additives V = Rheological modifier V = Rheological modifier S = Other (specify) Article-Flat product's physical form: A = Gas B = Liquid C = Aqueous solution F 4 = Other solid D = Paste G = Gel E = Slurry H = Other (specify) Article	,		***************************************	
A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/ Sensitizer D = Inhibitor/Stabilizer/Scavenger/ Antioxidant E = Analytical reagent G = Cleanser/Detergent/Degreaser H = Lubricant/Friction modifier/Antiwear agent J = Flame retardant K = Coating/Binder/Adhesive and additives X = Gas B = Liquid B = Synthetic reactant C = Catalyst/Initiator/Accelerator/ N = Plasticizer N = Dye/Pigment/Colorant/Ink and additives and additives N = Dye/Pigment/Colorant/Ink and additives A = Electrodeposition/Plating chem and additives A = Explosive chemicals and additives A = Fragrance/Flavor chemicals B = Explosive chemicals and additives A = Fragrance/Flavor chemicals B = Fr			///	
A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/ Sensitizer D = Inhibitor/Stabilizer/Scavenger/ Antioxidant E = Analytical reagent G = Cleanser/Detergent/Degreaser H = Lubricant/Friction modifier/Antiwear agent J = Flame retardant K = Coating/Binder/Adhesive and additives X = Gas B = Liquid B = Synthetic reactant C = Catalyst/Initiator/Accelerator/ N = Plasticizer N = Dye/Pigment/Colorant/Ink and additives and additives N = Dye/Pigment/Colorant/Ink and additives A = Electrodeposition/Plating chem and additives A = Explosive chemicals and additives A = Fragrance/Flavor chemicals B = Explosive chemicals and additives A = Fragrance/Flavor chemicals B = Fr				
A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/ Sensitizer D = Inhibitor/Stabilizer/Scavenger/ Antioxidant E = Analytical reagent G = Cleanser/Detergent/Degreaser H = Lubricant/Friction modifier/Antiwear agent J = Flame retardant K = Coating/Binder/Adhesive and additives X = Gas B = Liquid B = Synthetic reactant C = Catalyst/Initiator/Accelerator/ N = Plasticizer N = Dye/Pigment/Colorant/Ink and additives and additives N = Dye/Pigment/Colorant/Ink and additives A = Electrodeposition/Plating chem and additives A = Explosive chemicals and additives A = Fragrance/Flavor chemicals B = Explosive chemicals and additives A = Fragrance/Flavor chemicals B = Fr	Use the following codes t	o designate pro	oduct types:	
ose the rorrowing codes to designate the type of end-users:	B = Synthetic reactant C = Catalyst/Initiator/Ac Sensitizer D = Inhibitor/Stabilizer/ Antioxidant E = Analytical reagent F = Chelator/Coagulant/Se G = Cleanser/Detergent/De H = Lubricant/Friction mo agent I = Surfactant/Emulsifier J = Flame retardant K = Coating/Binder/Adhesi Use the following codes t A = Gas B = Liquid C = Aqueous solution D = Paste E = Slurry F1 = Powder	Scavenger/ questrant greaser difier/Antiwear  ve and additive o designate the F2 = Cry F3 = Gra F4 = Oth G = Gel H = Oth	<pre>M = Plasticizer N = Dye/Pigment/Colo 0 = Photographic/Reg and additives P = Electrodepositio Q = Fuel and fuel ac R = Explosive chemic S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and W = Rheological mode EX = Other (specify) e final product's physic yetalline solid anules her solid her (specify) Article</pre>	prant/Ink and addi prographic chemica on/Plating chemica dditives cals and additives chemicals of chemicals ds and additives additives affier Article-Flat proc
I = Industrial	<pre>I = Industrial</pre>	CS = Cor	sumer	

CBI,	liste	le all applicable modes of transportation used to deliver ed substance to off-site customers.	bulk shipments of	f the
[_]	Truck	· · · · · · · · · · · · · · · · · · ·		(1)
		car		
		e, Vessel		$\overline{}$
		line		•
		<u> </u>		
		(specify)		
		*		0
2.16 <u>CBI</u>	of er	omer Use Estimate the quantity of the listed substance repared by your customers during the reporting year for used use listed (i-iv).  gory of End Use	used by your cus se under each cate	tomers egory
	i.	Industrial Products		
		Chemical or mixture		kg/yr
		Article		_ kg/yr
	ii.	Commercial Products		N8/J1
		Chemical or mixture		kg/yr
		Article		
	iii.	Consumer Products		
		Chemical or mixture		kg/yr
		Article		- kg/yr
	iv.	<u>Other</u>		_
		Distribution (excluding export)		kg/yr
		Export		
		Quantity of substance consumed as reactant		
		Unknown customer uses		
		_		
[_]	Mark	(X) this box if you attach a continuation sheet.		

# SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

.01			
BI	Specify the quantity purchased and the average price for each major source of supply listed. Product trad The average price is the market value of the product substance.	paid for the lis es are treated a that was traded	ted substance s purchases. for the listed
	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.		
	The listed substance was transferred from a different company site.	,	
	The listed substance was purchased directly from a manufacturer or importer.		4
	The listed substance was purchased from a distributor or repackager.		
	The listed substance was purchased from a mixture producer.	618.2	8.00-Total
I	Your facility	deliver the lis	ted substance to
	Circle all applicable modes of transportation used to your facility.  Truck  Railcar  Barge, Vessel  Pipeline		
	Truck		
,	Truck Railcar Barge, Vessel Pipeline		

3.03 a. CBI	Circle all applicable containers used to transport the listed substance to your facility.
<u> </u>	Bags 1
	Boxes 2
	Free standing tank cylinders
	Tank rail cars
	Hopper cars 5
	Tank trucks 6
	Hopper trucks
	Drums
	Pipeline
	Other (specify)10
ь.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.
	Tank cylinders mmHg
	Tank rail cars mmHg
	Tank trucks mmHg

average percent composit	d substance in the form of a mixture, list the trade name(s) e of its supplier(s) or manufacturer(s), an estimate of the tion by weight of the listed substance in the mixture, and the seed during the reporting year.					
Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify <u>+</u> % precision)	Amount Processed (kg/yr)			
Wingfil Part A	ARNCO	4.0 ± 0.5	15456			
:			13430			
		•				

	State the quantity of the listed substance used as a raw material during the reporting year in the form of a class I chemical, class II chemical, or polymer, and the percent composition, by weight, of the listed substance.						
	Quantity Used (kg/yr)	% Composition by Weight of Listed Sub stance in Raw Materia (specify ± % precision					
Class I chemical	618.2	4.0 ± 0.5					
		·					
Class II chemical		-					
·							
Polymer							



### HATERIAL SAFETY DATA SHEET

REVISION DATE June 4 , 1986

## I. GENERAL INFORMATION

PRODUCT NAME : WING-FIL COMPONENT "A"

CHEHICAL NAME : TDI Prepolymer plus Petroleum Hydrocarbon

CHEHICAL FAHILY : Isocyanate Prepolymer and Petroleum Hydrocarbon

: Proprietary DOT HAZARD CLASS : UN2078 (TDI)

HANUFACTURER ' : ARNCO, 5141 Firestone Place, South Gate, CA 90280-3570

Phone No: (213)567-1378

CHEMTREC Phone No: (800)424-9300 District of Columbia: (202)483-7616

#### II. INGREDIENTS

Components	TLV	Flash Point OF	Boiling Point OF	Vapor Press. mm Hg	Vapor Dens. (Air=1)	Flammable Limit LEL UEL
TDI Prepolymer	0.02ppm 0.2mg/m3	Not Estab.	Not Estab.	0.02 @77°F.	6.0	Not Estab.
Petroleum Hydrocarbon	0.2mg/m <sup>3</sup> TWA-ACGIH	>300	>550	<1.0 @68°F.	<0.1	No Data Available

### III. PHYSICAL DATA

BOILING POINT (°F) : 464

VAPOR PRESSURE (mm Hg) : SEE SECTION II VAPOR DENSITY (Air=1) : SEE SECTION II SOLUBILITY IN WATER. \$

: Insoluble. Reacts with water to liberate

CO2 gas. APPEARANCE & ODOR

: Dark brown liquid. Sharp pungent odor. SPECIFIC GRAVITY

 $(H_20=1)$ : 1.01

VOLATILE BY VOLUME : Regligible

EVAPORATION RATE (Ether=1): Not Established

### IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (°F)

: 320

FLANHABLE LIHITS

.: Not Established

EXTINGUISHING HEDIA

: Dry chemical, chemical foam, carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full emergency equipment with self-contained pressure-demand breathing apparatus. Use water to cool fire-exposed containers. Eliminate all sources of

UNUSUAL FIRE & EXPLOSION HAZARDS: During a fire, toxic gases are generated. Closed containers may explode from extreme heat or from water contamination. DO NOT reseal water-contaminated containers, as pressure buildup up may cause violent rupture of the container.

#### V. HEALTH HAZARD DATA

THRESHOLD LIHIT VALUE: 0.02 ppm; 0.2 mg/m3

#### SYMPTOMS OF EXPOSURE:

INHALATION: Hay cause dizziness and nausea. Irritation of the upper and lower respiratory tract. Some individuals may develop isocyante hypersensitization and must avoid further exposure to even low isocyanate levels. Inhalation of mists may present a cancer hazard a Sinusitis, brochitis, asthma, and impaired ventilatory capacity can occur in some individuals.

INGESTION: Irritation and corrosive action in the mouth, stomach and digestive tract. Possibly liver toxicity. Aspiration into the lungs can cause chemical pneumonitis which can be fatal.

EYES: Liquid, vapors, or mist can cause sever irritation, redness, tearing, blurred vision and possibly irreversible damage to the eye.

SKIN: Irritation and allergic sensitivity may occur for some individuals, producing reddening, swelling or blistering, and skin sensitization, possibly resulting in dermatitis. This product contains petroleum oils similar to those catogarized by the International Agency for Research on Cancer (IARC) as causing skin cancer in mice after prolonged and repeated contact. Any potential hazard can be minimized by using recommended protective equipment to avoid skin contact and by washing thoroughly after handling.

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## V. HEALTH HAZARD DATA (continued)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing unspecific bron-chial hypersensitivity and, potentially, any allergies.

PRIMARY ROUTES OF ENTRY: Inhalation and skin contact.

#### EHERGENCY FIRST AID:

INHALATION: Remove victim to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, apply artificial respiration, and get medical attention immediately. NOTE TO PHYSICIAN: Treat symptomatically: bronchodilators; oxygen.

INGESTION: DO NOT INDUCE VOMITING. Aspiration can be fatal. Give a glass of milk or water, keep patient quiet and warm, and get prompt medical atten-

EYES: Flush immediately with water for at least 15 minutes, occasionally lifting the eyelid, and get prompt medical attention.

SKIN: Remove contaminated clothing and launder before reuse. Wash affected skin with soap and water. Consult a physician if swelling or reddening

### VI. REACTIVITY DATA

STABILITY: Stable under normal, recommended storage conditions.

CONDITIONS TO AVOID: Open flame and storage temperatures above 120°F

INCOMPATIBILITY: Materials to avoid are water. alcohols, ammonia, amines, and alkalis. Contaminated containers should be left vented and be moved to a safe area for neutralization and proper disposal.

HAZARDOUS POLYMERIZATION: Hay occur.

CONDITIONS TO AVOID: Exposure to high temperature, or resealing of containers contaminated with materials listed under INCOMPATIBILITY (materials

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide, nitrogen oxides, sulfur oxides, unidentified organic compounds, and traces of hydro-

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# VII. ENVIRONMENTAL PROTECTION PROCEDURES

SPILL RESPONSE: Evacuate and ventilate the area. Eliminate all sources of ignition. Respiratory protection must be worn during cleanup. Cover the spill with sawdust, vermiculite, or other absorbent material. Scoop and place in open container and remove to well ventilated area to be treated with a decontamination solution made up of 20% Tergitol TMN-10 (Union Carbide) and 80% water; or 5% concentrated ammonia, 2% detergent, and 93% water. Leave the container open for 24-48 hours. Wash down the spill area with decontamination solution. For major spills call CHEMTREC: (800)

WASTE DISPOSAL HETHOD Decontaminated waste must be disposed of in accordance with Federal, State, and local environmental control regulations. It is your duty to comply with the Clean Air Act, Clean Water Act, and Resources Conservation and Recovery Act.

### VIII. SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Chemical workers goggles or full-face shield. lenses should not be worn in or near work area. Contact

RESPIRATORY PROTECTION: HSHA/NIOSH approved positive-pressure air-supplied respirator with full-face shield. Organic vapor filters are not effective against TDI vapor. The vapor pressure of TDI is such that at normal temperatures, vapor concentration in the air will exceed the TLV of 0.02 ppm.

SKIN PROTECTION: Impervious, chemical resistant (natural rubber) gloves, arm covers, aprons or coveralls, boots and caps.

VENTILATION RECOMMENDED: General mechanical ventilation and local exhaust. to maintain vapor concentration below the TLV.

OTHER PROTECTION: Safety showers and eye wash stations must be easily accessible. Provide a dry nitrogen blanket in bulk storage tanks.

### IX. SPECIAL PRECAUTIONS

HYGIENIC PRACTICES IN HANDLING & STORAGE: Store below 100°F, preferably below 90°F, in tightly-closed containers to prevent atmospheric moisture contamination. DO NOT reseal if contamination is suspected. DO NOT store

Wear protective equipment to prevent eye and skin contact. DO NOT breath vapors. Wash hands before eating or smoking.

Since emptied containers retain product residues (vapor or liquid), all hazard precautions given in this HSDS must be observed. container disposal, fill with water and allow to stand unsealed for at least 48 hours then dospose of in accordance with Federal, State and local environmental control regulations.

THE INFORMATION IN THIS HSDS IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, EXCEPT THAT IT IS ACCURATE TO THE BEST KNOWLEDGE OF ARNCO. DATA ON THIS MSDS RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN. ARNCO ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THIS DATA.

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4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes 1
	No 2
4.04	For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for
CBI	manufacturing, storage, disposal and transport activities are determined using the final state of the product.

	Physical State						
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas		
Manufacture	1	2	3	4	5		
Import	1	2	3	4	5		
Process	1	2	(3)	4	5		
Store	1	2	3	4	5		
Dispose	1	2	3	4	5		
Transport		2	3	4	5		

<sup>[</sup>\_\_] Mark (X) this box if you attach a continuation sheet.

listed substance. Measure the physical state and particle sizes for manufacturin storage, disposal and transport activities using the final state of the product.							
Physical State		Manufacture	Import	Process	Store	Dispose	Trans
Dust	<1 micron			NA		Start and a special and	**************************************
	1 to <5 microns			NA			
	5 to <10 microns			NA		·	
Povder	<li><l li="" micron<=""></l></li>		**	NA			•
	1 to <5 microns			NA	-	*	
	5 to <10 microns			NA	-		
Fiber	<1 micron			NA			
	1 to <5 microns			NA		-	-
•	5 to <10 microns			<u>NA</u>	-		
Aerosol	<1 micron		·	NA NA	-		
	1 to <5 microns			NA			
	5 to <10 microns	•		<u>NA</u>			
	•						

### SECTION 5 ENVIRONMENTAL FATE

)1	Ind	dicate the rate constants for the following transformation processes.	
	a.	Photolysis:	
		Absorption spectrum coefficient (peak) (1/M cm) at n	nm
		Reaction quantum yield, 6 at at n	
		Direct photolysis rate constant, $k_p$ , at l/hr lati	
	b.	Oxidation constants at 25°C:	
		For <sup>1</sup> 0 <sub>2</sub> (singlet oxygen), k <sub>ox</sub>	1/M
		For RO <sub>2</sub> (peroxy radical), k <sub>ox</sub> 1	1/M
	c.	Five-day biochemical oxygen demand, BOD <sub>5</sub>	
	d.	Biotransformation rate constant:	
		For bacterial transformation in water, $k_b \dots $ 1	1/hı
		Specify culture	
	e.	Hydrolysis rate constants:	
		For base-promoted process, k <sub>B</sub>	1/M
		For gold promoted process to	1/H
		For neutral process k	1/hi
	f.	Chemical reduction rate (specify conditions)	
	g.	Other (such as spontaneous degradation)	

PART	В	PARTITION COEFFICIENTS						
5.02	a.	Specify the half-life of the li		stance in the following media.  NA-Mixture				
		Media		Half-life (specif	y units)			
		Groundwater						
		Atmosphere	***					
		Surface water						
		Soil						
	b.	Identify the listed substance's life greater than 24 hours.	known transf	ormation products	that have a	half-		
		CAS No.	ame	Half-life (specify units)	<u>Hed</u>	<u>ia</u>		
					in			
					in			
					in			
					in			
5.03		cify the octanol-water partition hod of calculation or determinat	coefficient,			at 25°C		
5.0%	C = 0		NA-1	Mixture				
3.04		cify the soil-water partition co				at 25°C		
5.05	Spe coe	cify the organic carbon-water particient, K <sub>oc</sub>	rtition	Mixture		at 25°C		
5.06	Spe	cify the Henry's Lav Constant, H	NA-A	Mixture	atm-	-m³/mole		
	Mar	k (X) this box if you attach a co	ontinuation s	neet.				

Bioconcentration Factor		Species NA-Mix	ture	Test <sup>1</sup>	
<sup>1</sup> Use the following codes	to designate	e the type of	test:		
F = Flowthrough S = Static					

604 CBI•	For each market listed below, state the listed substance sold or transfer	the quantity sold and the to	otal sales value of orting year.
[_]		Quankity Sold or	Total Sales
•	Market \	Transferred (kg/yr)	Value (\$/yr)
\	Retail sales		
	Distribution \ Wholesalers \		
	Distribution - Retailers		
	Intra-company transfer		
	Repackagers \		
	Nixture producers		
	Article producers		
	Other chemical manufacturers or processors		
	Exporters		
	Other (specify)		
\			\
6.05	Substitutes list all known correct	-1-11	
	Substitutes List all known commerce for the listed substance and state the feasible substitute is an arbital.	10 COST Of each substitute	4 commorcially
CBI	feasible substitute is one which is e in your current operation, and which performance in its end uses.	CONOMICALLY and technologi.	cally forcible to use
(1	Substitute	•	Cost (\$/kg)
	No substitutes currently known	1	003 (01.kg)
	•		
***************************************		1 D	
[ ]	Mark (X) this box if you attach a con	itinuation sheet.	

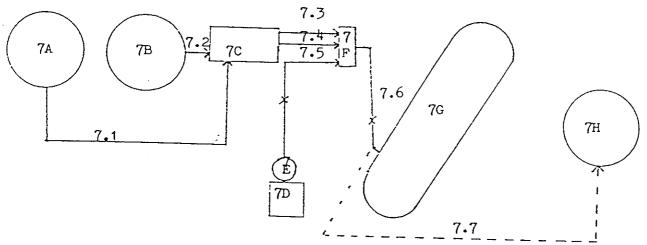
### General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the

# PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

[ ] Process type ..... Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution
7C = Motorine Description

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

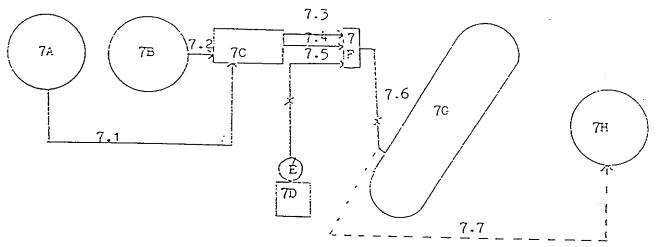
7H = Clean-out Solution Drum

<sup>[ ]</sup> Mark (X) this box if you attach a continuation sheet.

7.03 In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions type, provide a process block flow diagram showing each process type as a separate

CBI

Process type ..... Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

7H = Clean-out Solution Drum

 $<sup>\{ \ \ \ \}</sup>$  Hark (X) this box if you attach a continuation sheet.

_] Process ty	pe Batch-	Polyurethane Polyme	rization	
Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel <u>C</u> ompositio
7A	Drum	Ambient	Atmospheric	Steel
7B	Drum	Ambient	Atmospheric	Steel
7C	Metering Pump	Ambient	Atmospheric	Stainless
7D	5 Gallon Can	Ambient	Atmospheric	Steel
7E	Pump	Ambient	Atmospheric	Steel
<u>7</u> F	Mixing Head	Ambient	Atmospheric	Stainless Steel
<u>7</u> G	Tire	Ambient	Atmospheric	Vul. Rubb
<u>7</u> H	Drum	Ambient	<u>Atmospheri</u> c	Steel
			•	-
		·		

CBI							
[_]	Process type .	Process type Batch - Polyurethane Polymerization					
	Process Stream ID Code	Process Stream Description	Physical State <sup>1</sup>	Stream Flow (kg/yr)			
	7.1	TDI Prepolymer	OL	15456			
	7.3	TDI Prepolymer	OL	15456			
	7.6	Polymerizing Polyurethane	OL .	30912			
	GC = Gas (cond GU = Gas (unco SO = Solid SY = Sludge or AL = Aqueous 1 OL = Organic 1	iquid	nd pressure) and pressure)				

7.06 CBI	If a proces	ze each process stream identifies block flow diagram is placed in separation and complete it separations.	provided for mor itely for each n	e than one pro	ress tune photos
	Process typ	ns for further explanation  De Batch - P	n and an example olyurethane Poly		
	a.	b.	с.	d.	e.
	Process Stream ID Code	Known Compounds	Concen- trations <sup>2,3</sup> (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
	7.1	TDI Prepolymer	40 ± 5.0 (E) (W)	NA	NA
		Petroleum Hydrocarbon	55 ± 5.0 (E) (W) _	NA	NA
		Toluene Diisocyanate	4.0 ± 0.5 (E) (W) -	NA	. NA
	7.3	TDI Prepolymer	40 ± 5.0 (E) (W)	NA	NA NA
		Petroleum Hydrocarbon	55 ± 5.0	NA	NA
		Toluene Diisocyanate	4.0 ± 0.5 (E) (W) -	NA .	NA
	7.6	Polyurethane	(E) - (H)	NA	NA NA
		Toluene Diisocyanate	(E) (W)	NA	NA
		Amine	<u> (£) (w)</u>	NA	NA
7.06	continued b	elow			
		,			
			·		
[_]	Mark (X) th	is box if you attach a co	ontinuation shee	:t.	

7 0// /			• •
7.06 (	cón t	inue	ed)

NA

<sup>1</sup>For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentration (% or ppm)
1		
<i>*</i>		
2		*LO
		-
		***
2		· · · · · · · · · · · · · · · · · · ·
3		
	-	
		-
4	-	
		·
5		
<sup>2</sup> Use the following code	es to designate how the concentrat	ion was determined.
A = Analytical result	-5 to designate now the concentrat	Ton was determined:
E = Engineering judgen	ment/calculation	
Use the following code	es to designate how the concentrat	ion was measured:
V = Volume		
W = Weight		

01 <u>81</u>	In accordance with the inst which describes the treatme	tructions, pr ent process u	ovide a resid sed for resid	ual treatment uals identifie	block flow diagram d in question 7.0
_]	Process type	Batch -	Polyurethane	Polymerizatio	n
	1	Ā			
					·
					•
		,			

BI	type.	(Refer to th	e instruction	ns for further	nplete it separ c explanation a	and an example	e.)
<u>_</u> ]	Process	type		tch - Polyure	thane Polymeri	zation	···
	a.	b.	C.	d.	е.	f.	g.
	Stream ID Code	Type of Hazardous Vaste	Physical State of Residual <sup>2</sup>	Known Compounds <sup>3</sup>	Concentra- tions (% or ppm) <sup>4,5,6</sup>	Other Expected Compounds	Estimated Concen- trations (% or ppm)
							-

## 8.05 (continued)



<sup>1</sup>Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive

E = EP toxic

T = Toxic

H = Acutely hazardous

<sup>2</sup>Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

S0 = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

## 8.05 continued below

\_\_\_ | Mark (X) this box if you attach a continuation sheet.

Additive Package Numbe	<u>r</u>	Components of Additive Package	Concentrations (% or ppm)
1	_		
2			
	-		
3	-		
4			
	-		
5	-		
			-
<sup>4</sup> Use the follows	ing codes to	designate how the concentrati	ion was determined:
A = Analytical E = Engineering	result g judgement/	calculation	,
continued below		***	

8.05 (continued)

(continued)	NA	
<sup>5</sup> Use the follow:	ing codes to designate how the concentration	ı vas measured:
V = Volume W = Weight		
<sup>6</sup> Specify the and below. Assign	alytical test methods used and their detecti a code to each test method used and list th	on limits in the table
Code	<u>Method</u>	Detection L ( <u>+</u> ug/l)
1		
4		
5		
6		

 $[\ ]$  Mark (X) this box if you attach a continuation sheet.

8.06	diagram process	(s). If a retype, photo-	esidual trea copy this qu	itment block estion and o	d in your residua flow diagram is complete it sepa her explanation a	provided for morately for each	re than one
CBI							
[_]	Process	type	Bat	tch - Polyur	ethane Polymeriz	ation	
	а.	b.	NA C.	d.	е.	f.	g.
	Stream ID Code	Waste Description Code	Management Method Code <sup>2</sup>	Residual Quantities (kg/yr)	Management of Residual ( On-Site Off-S		Changes in Management Methods
				-			
				***************************************			
					•		
							***************************************
		•				- 17 - 10 - 10 - 10 - 10 - 10 - 10 - 10	
	<b></b>						
	<sup>1</sup> Use the	e codes prov e codes prov	ided in Exhi ided in Exhi	bit 8-1 to 6	designate the wa	ste descriptions	s s
[_]	Mark (X	) this box i	f you attach	a continua	tion sheet.		

8.22	Describe the co	onbustion chamber incinerators that	design para	meters for	ach of th	e three la	rgest
<u>CBI</u>	your process b	lock or residual	treatment bl	ock flow dia	gram(s).	iguais ide	nvilled in
[_]		Combustion Chamber Temperature (	°C)	Location o Temperatur Monitor		In Com	nce Time bustion (seconds)
	Incinerator 1	Primary Secon	ndary Pri	mary Seco	ndary	Primary	Secondary
	2 3					_	
	Indicate	if Office of Soli	id Waste surte response.	vey has been	submitte	d in lied	of response
	No	\		• • • • • • • • • • • • • • • • • • • •		•••••••	2
8.23 <u>CBI</u> []	are asea 011-21	ollowing table for se to burn the res st flow diagram(s). NA	siquals iden	largest (by tified in yo	capacity) ur proces	s block or	residual
''	Incinerator	<u>(</u>	Air Pollutio Control Devi		-	Types Emission Avail	s Data
	1	-			<u></u>		
	3	-		<del></del>			<del></del>
	Indicate by circli	if Office of Soli	d Waste survice response.	vey has been	submitte	d in lieu	of response
		• • • • • • • • • • • • • • • • • • • •					
		ing codes to desi					
	E = Electrosta	include type of s tic precipitator cify)					
	Mark (X) this b	ox if you attach	a continuat	ion sheet.			

PART A	EMPLOYMENT	AND	POTENTIAL	EXPOSURE	PROFILE

D		intained for		Number of
Data Element	Hourly Workers	Salaried Workers	Data Collection Began	Years Record
Date of hire	X	X	HIRE DATE	***************************************
Age at hire	X	X		• · · · · · · · · · · · · · · · · · · ·
Work history of individual before employment at your facility	X	X	11:10 11:11	
Sex	X	X	11 11 11 11	
Race				
Job titles	_X	X	11 11 11 11	
Start date for each job title	<u> </u>	X	17 17 19 11	
End date for each job title	X	X	11 11 11 11	
Work area industrial hygiene monitoring data			***************************************	
Personal employee monitoring data			· .	
Employee medical history	_X	X	11 11 11 11	
Employee smoking history				
Accident history	_X	X	11 11 11 11	
Retirement date	X	X	11 11 11 11	
Termination date	X	<u> </u>		
Vital status of retirees	-			
Cause of death data	X	X	1111 1111	

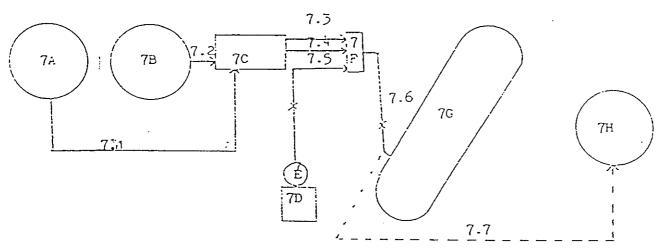
a.	b.	c.	d.	e.
		Yearly	Total	Tota
Activity	Process Category	Quantity (kg)	Workers	Worker-
Manufacture of the listed substance	Enclosed	***************************************		
	Controlled Release			***************************************
	0pen			
On-site use as	Enclosed	618.2	<u> </u>	1000
reactant	Controlled Release			
	0pen			
On-site use as	Enclosed			
nonreactant	Controlled Release			
	0pen			
On-site preparation	Enclosed			<del></del>
of products	Controlled Release			
	0pen	and the second second	-	******
	o p d.i.			
A.				

listed substance.	may potentially come in contact with or be exposed to the
[]	
Labor Category	Descriptive Job Title
Α	Certified Fleet Service Specialist
В	
С	
D	·
E	
F	
G	
Н	
I	
J	

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

| Process type ..... Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

7H = Clean-out Solution Drum

Note: All above is considered one work area

Process type	Batch - Polyurethane Polymerization
rrocess type	20001 Tory of Containe Tory mer 12a cross
Work Area ID .	Description of Work Areas and Worker Activities
1	Pumping TDI/Amine solutions to mixer, filling tires through valve stem with polyurethane, and cleaning hosing with alcohol.
2	
3	
4	
5	
6	
7	
8	
9	
10	
	•

_ <sub>]</sub>	Process type	e	Batch - Poly	urethan	e Polymerizat	tion		
_								
	Labor <u>Category</u>	Number of Workers Exposed	Mode of Exposur (e.g., dire skin contac	ect	Physical State of Listed Substance	Average Length of Exposure Per Day <sup>2</sup>	Number o Days per Year Exposed	
				D-1-010-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				
				<del></del>				
	<sup>1</sup> Use the fo	llowing codes to	o designate the	physic	cal state of	the listed su	ubstance a	
	tempo GU = Gas tempo	(condensible at erature and preduced of the condensible described of the condensible of t	ssure) at ambient ssure;	AL = 0L =	Sludge or sl Aqueous liqu Organic liqu Immiscible l (specify pha 90% water.	uid uid liquid ases, e.g.,		
	S0 = Solid 90% vater, 10% toluene)  2 Use the following codes to designate average length of exposure per day:							
	A = 15 mins B = Greates exceed C = Greate	utes or less r than 15 minut ing 1 hour r than one hour ing 2 hours	es, but not	D = ( E = (	Greater than exceeding 4 b	2 hours, but nours 4 hours, but nours	not	

9.07 CBI	Weighted Average ('	egory represented in question 9.06, IVA) exposure levels and the 15-mir stion and complete it separately fo	ute peak exposure levels.
 [	Process type	Batch - Polyurethane Polymer	ization
. — '		**************************************	
	Work area		1
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Level (ppm, mg/m³, other-specify)
	*	*	*
			•
			-
	-		
* No	tests have been con	nducted	
	,		
		•	

80	If you monitor worke	er exposur	e to the li	sted substai	ice, compi	ete the fo	llowing table.
<u>I</u> -,	No mon	nitor <b>wo</b> rk	er exposure	available			
_]	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples <sup>1</sup>	Analyzed In-House (Y/N)	Number of Years Records Maintained
	Personal breathing zone						
	General work area (air)						
	Vipe samples						•
	Adhesive patches				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Blood samples						
	Urine samples						
	Respiratory samples						
	Allergy tests						
	Other (specify)						
	Other (specify)		-	-	-		
	Other (specify)						· · · · · · · · · · · · · · · · · · ·
	A = Plant industria B = Insurance carri C = OSHA consultant D = Other (specify)	ıl hygieni er		takes the	monitorin	g samples:	

	Sample Type	Sampling and Analys	tical Methodology					
	(NA	48-00-0						
	<u> </u>							
			The state of the s					
9.10	If you conduct personal and/	or ambient air monitoring for	or the listed subs	tance, .				
CBI	specify the following inform	nation for each equipment typet tonduct	pe used.					
	,		Averaging					
[_]	Equipment Type Detect	ion Limit Manufacturer	Time (hr) M	odel Number				
	<sup>1</sup> Use the following codes to designate personal air monitoring equipment types: A = Passive dosimeter							
	B = Detector tube C = Charcoal filtration tub	a niek auss						
	D = Other (specify)							
	Use the following codes to designate ambient air monitoring equipment types:							
	E = Stationary monitors located within work area F = Stationary monitors located within facility							
	G = Stationary monitors located at plant boundary							
	<pre>H = Mobile monitoring equipment (specify) I = Other (specify)</pre>							
	Use the following codes to	designate detection limit us	nits:					
	A = ppm B = Fibers/cubic centimeter	(f/çc)						
	C = Micrograms/cubic meter	(µ/m³)						

,	m D	_	sts conducted	Vuonklu	Frequency monthly, ye	varly oto
	Test Descr	ription		weekly,	monthly, ye	arry, etc.
	<del></del>					
	en e					

Process type	9.12 <u>CBI</u>	Describe the engineering cont to the listed substance. Pho process type and work area.	otocopy this q	use to reduce or eucestion and comple **  one **	eliminate wor te it separat	ker exposure ely for each
Engineering Controls  Used (Y/N) Installed (Y/N) Upgraded (Y/N) Upgraded (Y/N) Upgraded (Y/N)  Ventilation:  Local exhaust  General dilution Other (specify)  Vessel emission controls  Mechanical loading or packaging equipment	[_]	Process type	Batch - P	olyurethane Polyme	rization	
Engineering Controls (Y/N) Installed (Y/N) Upgraded  Ventilation:  Local exhaust  General dilution  Other (specify)  Vessel emission controls  Mechanical loading or packaging equipment		Work area	• • • • • • • • • • • • • • • • • • • •		1	
Local exhaust  General dilution  Other (specify)  Vessel emission controls  Mechanical loading or packaging equipment		Engineering Controls				Year Upgraded
General dilution  Other (specify)  Vessel emission controls  Mechanical loading or packaging equipment		Ventilation:				
Other (specify)  Vessel emission controls  Mechanical loading or packaging equipment		Local exhaust	**************************************			
Vessel emission controls  Mechanical loading or packaging equipment		General dilution				
Mechanical loading or packaging equipment		Other (specify)				
packaging equipment		Vessel emission controls	·			****
Other (specify)		Mechanical loading or packaging equipment				
		Other (specify)				***************************************
	ı.	ou aware that any engineering	controls are	needed		
Not aware that any engineering controls are needed						

 ${\tt Mark}$  (X) this box if you attach a continuation sheet.

Process type Batch - Polyurethane Polymerizat  Work area	1
Work area	1
Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
	•
No Modifications	

[ ] Mark (X) this box if you attach a continuation sheet.

PART	D PERSONAL PROTECT	IVE AND SAFETY EQUIPMENT		
9.14 <u>CBI</u>	in each work area	nal protective and safety equi in order to reduce or eliminat opy this question and complete	e their exposure	e to the listed
[_]	Process type	Batch - Polyurethane	Polymerization	
	Work area	• • • • • • • • • • • • • • • • • • • •		1
			Wear or Use	
		Equipment Types	(Y/N)	•
		Respirators	N	
		Safety goggles/glasses	Y	
		Face shields	<u> </u>	
		Coveralls	Y	
		Bib aprons	<u>Y</u>	
		Chemical-resistant gloves	Y	
		Other (specify)		
			-	
		·		

[\_] Mark (X) this box if you attach a continuation sheet.

9.15	process type, respirators use tested, and the	respirators when wo the work areas where ed, the average usage type and frequency parately for each pr	e the respirat ge, whether or y of the fit t	ors are us not the r	ed, the type espirators we	of ere fit
CBI		<b>5</b>				
[_]	Process type	Batch	- Polyurethan	ne Polymer	ization	150 (474)
	Work Area	Respirator Type	Average Usage	Fit Tested (Y/N)	Type of Fit Test <sup>2</sup>	Frequency of Fit Tests (per year)
		NK.				
	A = Daily B = Weekly C = Monthly D = Once a yea E = Other (specarious) Use the follow QL = Qualitati QT = Quantitati	ecify) ving codes to designate	nate the type	——of fit tes	:t:	
[_]	Mark (X) this	box if you attach a	continuation	sheet.		

.19 BI	Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area.					
 ]						
	Process type				· · · · · · · · · · · · · · · · · · ·	
	Work area	••••••		1		
	Area is not restr	icted				
					•	
.20	Indicate (X) how often you	perform each hou	sekeeping ta	sk used to cl	ean up routine	
	leaks or spills of the lis separately for each proces	s type and work a	area.		a complete it	
	Process type	s type and work a	area. nane Polymeri:		a complete it	
	Process type	s type and work a	area.  nane Polymeri:  1-2 Times	zation	More Than 4	
	Process type  Work area	Batch - Polyureth  Less Than	area.  nane Polymeri:  1-2 Times Per Day	zation  1  3-4 Times	More Than 4	
	Process type  Work area	Estype and work a  Batch - Polyureth  Less Than Once Per Day	area.  nane Polymeri:  1-2 Times Per Day	zation  1  3-4 Times	More Than 4	
	Process type  Work area  Housekeeping Tasks  Sweeping	Less Than Once Per Day  Completion	area.  ane Polymeri:  1-2 Times Per Day  of job	zation  1  3-4 Times		
	Process type  Work area  Housekeeping Tasks  Sweeping  Vacuuming	Estype and work a  Batch - Polyureth  Less Than Once Per Day	area.  ane Polymeri:  1-2 Times Per Day  of job	zation  1  3-4 Times	More Than 4	
	Process type  Work area  Housekeeping Tasks  Sweeping  Vacuuming  Vacuuming  Vater flushing of floors	Less Than Once Per Day  Completion	area.  ane Polymeri:  1-2 Times Per Day  of job	zation  1  3-4 Times	More Than 4	
	Process type  Work area  Housekeeping Tasks  Sweeping  Vacuuming  Vacuuming  Vater flushing of floors	Less Than Once Per Day  Completion	area.  ane Polymeri:  1-2 Times Per Day  of job	zation  1  3-4 Times	More Than 4	
	Process type  Work area  Housekeeping Tasks  Sweeping  Vacuuming  Vacuuming  Vater flushing of floors	Less Than Once Per Day  Completion	area.  ane Polymeri:  1-2 Times Per Day  of job	zation  1  3-4 Times	More Than 4	
	Process type  Work area  Housekeeping Tasks  Sweeping  Vacuuming  Vacuuming  Vater flushing of floors	Less Than Once Per Day  Completion	area.  ane Polymeri:  1-2 Times Per Day  of job	zation  1  3-4 Times	More Than 4	
	Process type  Work area  Housekeeping Tasks  Sweeping  Vacuuming  Vacuuming  Vater flushing of floors	Less Than Once Per Day  Completion	area.  ane Polymeri:  1-2 Times Per Day  of job	zation  1  3-4 Times	More Than 4	

9\21	Dò you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
\	Routine exposure
\	Yes
	No
	Emergency exposure
	Yes \
	No\\\\\\
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes
	No 2
	If yes, where are copies of the plan maintained? <u>NEXT TO JOB AREA</u>
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes 1
	No 2
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist \ 1
	Insurance carrier
	OSHA consultant
\	Other (spedify)
\	
[_]	Mark (X) this box if you attach a continuation sheet.

## SECTION 10 ENVIRONMENTAL RELEASE

## General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART A	GENERAL INFORMATION
10.01 CBI	Where is your facility located? Circle all appropriate responses.
[_]	Industrial area
	Residential area 3
	Agricultural area
	Adjacent to a park or a recreational area
	Within 1 mile of a school, university, hospital, or nursing home facility 8
	Other (specify)
(1	Mark (X) this box if you attach a continuation sheet.

	Specify the exact location is located) in terms of late (UTM) coordinates.	creade and longitude or Uni	versal Transvers	se Mercader
	Latitude	NA	0	
	Longitude	•••••••••	0	′
	UTM coordinates	Zone, North	ning, Ea	asting
10.03	If you monitor meteorologic the following information.	cal conditions in the vicin	ty of your faci	lity, provid
	Average annual precipitation	on		inches/y
	Predominant wind direction			-
<del></del>				
10.04	Indicate the depth to groun	ndwater below your fability		
10.04	Indicate the depth to ground			meters
10.05	Depth to groundwater			
10.05 CBI	<b>\</b>	disted, indicate (Y/N/NA) a vironment. (Refer to the i	ll routine releanstructions for	ises of the a definition
10.05 CBI	Depth to groundwater  For each on-site activity l listed substance to the env	disted, indicate (Y/N/NA) a vironment. (Refer to the i	11	ises of the a definition
10.05 CBI	Depth to groundwater  For each on-site activity l listed substance to the env Y, N, and NA.)	listed, indicate (Y/N/NA) a vironment. (Refer to the i	ll routine releanstructions for	uses of the a definition
10.05 CBI	Depth to groundwater  For each on-site activity l listed substance to the env Y, N, and NA.)  On-Site Activity	Listed, indicate (Y/N/NA) a vironment. (Refer to the i	ll routine releanstructions for ironmental Relea	uses of the a definition use
10.05 CBI	Depth to groundwater  For each on-site activity l listed substance to the env Y, N, and NA.)  On-Site Activity  Manufacturing	Listed, indicate (Y/N/NA) a vironment. (Refer to the i	ll routine releanstructions for ironmental Relea	uses of the a definition use Land
10.05 CBI	Depth to groundwater  For each on-site activity I listed substance to the env Y, N, and NA.)  On-Site Activity  Manufacturing  Importing	Listed, indicate (Y/N/NA) a vironment. (Refer to the i  Env Air  NA  NA	ll routine releanstructions for ironmental Releavater NA-NA	uses of the a definition use  Land  NA
10.05 CBI	Depth to groundwater  For each on-site activity I listed substance to the env Y, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing	Listed, indicate (Y/N/NA) a vironment. (Refer to the information of th	ll routine releanstructions for ironmental Releavater  NA  NA  NA	uses of the a definition use  Land  NA  NA
10.05	Depth to groundwater  For each on-site activity I listed substance to the env Y, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing  Otherwise used	Listed, indicate (Y/N/NA) a vironment. (Refer to the information    Envalue    Air    NA    NA	ll routine releanstructions for ironmental Releavater  NA  NA  NA  NA  NA  NA	uses of the a definition use  Land NA NA NA NA NA

CBI	of precision for each item. (Refer to the instruc an example.)	tions for furti	ner explanation and
[_]	Quantity discharged to the air	NA	kg/yr <u>+</u>
	Quantity discharged in wastewaters	NA	kg/yr <u>+</u>
	Quantity managed as other waste in on-site treatment, storage, or disposal units	NA	kg/yr <u>+</u>
	Quantity managed as other waste in off-site treatment, storage, or disposal units	NA	kg/yr <u>+</u>
			·
	i		

10'.08	Describe the control technologies used to minimize release of the listed substance for each process stream containing the listed substance as identified in your process block or residual treatment block flow diagram(s). Photocopy this question and complete it separately for each process type.											
[_]	Process type	Batch - Polyurethane Polymerization										
	Stream ID Code	NA - Essential a closed system  Control Technology	Percent Efficiency									
			•									

10.09 <u>CBI</u> [_]	residual treatment blo source. Do not include	
	Process type	Batch - Polyurethane Polymerization
	Point SourceID Code	Description of Emission Point Source
		NA
	<del></del>	

Mark

3



0.10	Emission 10.09 b	on Character Dy completin	ristics – – Cr ng the followi	maracterize the	e emissions fo	or each Point	Source ID Co	de identified	in question
<u></u>	Point Source ID Cale	Physical State <sup>1</sup>	Average Emissions (kg/day)	Frequency <sup>2</sup> (days/yr)	Duration <sup>3</sup> (min/day)	Average Emission Factor	Maximum Emission Rate (kg/min)	Maximum Emission Rate Frequency (events/yr)	Maximum Emission Rate Duration (min/event)
		<del></del>							
	~			-	-				
				•					
	***************************************			-				-	
						***************************************			
		**************************************			***				
				****					
	Use the	e following ;; V = Vapor	codes to design; P = Particu	gnate physical late; A = Aero	l state at the osol; 0 = Othe	point of reint (specify)	lease:		
	²Frequen	cy of emiss	ion at any le	vel of emissic	nx				
:	3 Duratio	n of emissi	on at any leve	el of emission	1				
ć	Average product	Emission F	actor — Prov ed substance)	ide estimated	(± 25 percent	) emission fa	actor (kg of e	mission per k	g of

10.11 CBI	Stack Par identifie	ameters d in questi	Identify the	e stack paramone completing	meters for the followi	each Point ng table.	Source ID C	ode
<u>                                     </u>	Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building Height(m)	Building Width(m) <sup>2</sup>	Vent Type <sup>3</sup>
							<del></del>	P
				•				
			,	- Andrew Control of the Control of t		<del></del>		•
							-	
	-						-	
			-					
:								
	<sup>1</sup> Height o	f attached	or adjacent	building				
			or adjacent 1					
	<sup>3</sup> Use the	following o	codes to des	ignate vent	type:			
	H = Hori V = Vert							
[_] 1	Mark (X) t	his box if	you attach	a continuati	on sheet.			

10.12 CBI	distribution for each Point Source T	n particulate form, indicate the particle size D Code identified in question 10.09.  it separately for each emission point source.
[_]	Point source ID code	NA
	Size Range (microns)	Mass Fraction (% ± % precision)
	< 1	
	≥ 1 to < 10	
	≥ 10 to < 30	
	≥ 30 to < 50	•
	≥ 50 to < 100	
	≥ 100 to < 500	
	≥ 500	
		Total = 100%
		·

10.13 <u>CBI</u>	Equipment Leaks Complete the following table by providing the number of equipment types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated process, give an overall percentage of time per year that the process type is exposed to the listed substance. Photocopy this question and complete it separatel for each process type.												
[_]	Process type Ba	tch - Polyure	thane Pol	lvmerizat:	ion								
	Process type Batch - Polyurethane Polymerization  Percentage of time per year that the listed substance is exposed to this process type												
	type	·····//	'A · · · · ·	••••••		–	rocess አ						
		Number	of Compos	nents in d Substan	Service b	y Weight cess Stre	Percent.						
	Equipment Type	Less than 5%					Greater						
	Pump seals <sup>1</sup>	than Ja	5-10%	11-25%	26-75%	76-99%	than 99%						
	Packed												
	Mechanical		****				-						
	Double mechanical <sup>2</sup>												
,	Compressor seals			<del></del>									
	Flanges												
	Valves												
	Gas <sup>3</sup>												
	Liquid		-										
	Pressure relief devices <sup>4</sup> (Gas or vapor only)												
	Sample connections												
	Gas												
	Liquid		-										
	Open-ended lines <sup>5</sup> (e.g., purge, vent)				•	,							
	Gas												
	Liquid												
	<sup>1</sup> List the number of pump an compressors	d compressor	seals, ı	ather tha	an the nur	mber of p	umps or						
10.13	continued on next page												

10.13	(continued)											
	<sup>2</sup> If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively											
	<sup>3</sup> Conditions existing in the valve during normal operation											
	AReport all pressure relief devices in service, including those equipped with control devices											
	<sup>5</sup> Lines closed during normal operation that would be used during maintenance operations											
10.14 <u>CBI</u>	Pressure Relief Devices with Controls Complete the following table for those pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c.											
( <u> </u>	a. NA  B. C. d.  Number of Percent Chemical Estimated  Pressure Relief Devices in Vessel Control Device Control Efficiency											
	Refer to the table in question 10.13 and record the percent range given under the heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.)											
	<sup>2</sup> The EPA assigns a control efficiency of 100 percent for equipment leaks controlled with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions											
[_]	Mark (X) this box if you attach a continuation sheet.											

CBI	place, complete the procedures. Photocoptype.	by this question a	nd complete	it separat	ection and re ely for each	epair process
[_]	Process type		• • • • • • • • • • • • • • • • • • • •	Batch - P	olyurethane	Polymerizatio
	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	- Detection Device <sup>1</sup>		Repairs Initiated (days after detection)	Repairs Completed (days after
	Pump seals					
	Packed Mechanical	NA				•
	Double mechanical Compressor seals					
	Flanges			-		
	Valves					
	Gas					
	Liquid		M			
	Pressure relief devices (gas or vapor only)					
	Sample connections		-			
	Gas					
	Liquid					
	Open-ended lines Gas					1
	Liquid					
	<sup>1</sup> Use the following co			evice:		<b>* *</b>
	POVA = Portable orga FPM = Fixed point mo O = Other (specify)	nitoring				
<del></del>				· · · · · · · · · · · · · · · · · · ·		<del></del>

	щa	CBI			atment block	diate, and p flow diagram		Ü			Operat				,	•
	Mark (X) this	[_]	Vessel Type		Composition of Stored Materials	Throughput (liters per year)	Vessel Filling Rate (gpm)	Vessel Filling Duration (min)	Vessel Inner Diameter (m)		ing Vessel Volume	Vessel	Design Flow Rate <sup>5</sup>		Control Efficiency (%)	Basis for Estimate
	box if you															
	attach a															
120	a continuation sheet.		F CUF NCUF EFR P H	= Fixed ro = Contact = Nonconta = External	internal floact internal floating roe vessel (indical)	ating roof floating roo of	f		MS1 MS2 MS21 LM1 LM2 LMW VM1 VM1	= Mecl = Sho = Rim = Liq = Rim = Wea = Vap = Rim	hanical e-mounted uid-mounted uid-mounted ther shi or mounted	shoe, prined secondari d, secondari nted resili d shield deld ted resilied d secondary	mary cy cy ient fil	lled seal,		s:
			<sup>4</sup> Other <sup>5</sup> Gas/v	than floa apor flow	percent of ating roofs rate the emi	ssion contro	l device	was desig	the total	l volat: ndle (sp	pecify :	anic conter		arenthesis		

10.23	Indicate the date and time when the release occurred and when the release ceas	ed or
	was stopped. If there were more than six releases, attach a continuation shee	t and
	list all releases.	

Release		Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
	u k	<del> </del>			
<u>2</u> 3	<b>!</b> *				
4	f			•	
5					•
6					

10 24 Specify the weather conditions at the time of each release.

<u></u>	Wind Speed	Wind	Humidity	Temperature	Precipitation
Release	(km/hr)	Direction	<u>(%)</u>	(°C)	(Y/N)
1	`				
		_			
					<u></u>
3			`		
<u> </u>				\	
4	<del></del>				
5		\	\		
					<del></del>
6	<del></del>		<del>\</del>		
					`
			\	`	

 $[\ ]$  Mark (X) this box if you attach a continuation sheet.